# Deepwater Horizon Incident, Gulf of Mexico

# Region 6 REOC Update

**Subject:** **Region 6 Update # 32**
**Deepwater Horizon Incident, Gulf of Mexico**
**Date:** May 28, 2010
**To:** Incident Command
**Thru:** Planning Section
**From:** Situation Unit
**Operational Period:** May 28, 2010 0700 – May 31, 2010 0700
**Reporting Period:** May 28, 2010 1300 – May 29, 2010 1300

## 1. Background

| | | | |
|---|---|---|---|
| **Site Name:** | Deepwater Horizon Incident | **FPN#:** | N10036 |
| **Mobilization Date:** | 4/27/2010 | **Start Date:** | 4/28/2010 |

## 2. Current Situation

- The incident status summary as reported in the BP Situation Executive Summary as of 0600 on 5/28:
    - 15,681 personnel and 1,341 offshore vessels are currently responding to the incident.
    - Over 1.82 million feet of containment boom and 1.83 million feet of sorbent boom have been deployed.
    - Over 288,346 barrels of an oil-water mix have been recovered.
    - On 5/28, 1 controlled burn wasconducted. A cumulative total of 87 controlled burns have been conducted.
    - On 5/28, BP continued Top Kill operations with 16.4 lb mub and junk shot.
    - On 5/29, BP plans to continue subsurface dispersant injection.

**Summary of Dispersant Data** (from UC Situation Executive Summary)

| | **TOTALS for 5/28 (gal.)** | **CUMULATIVE TOTALS as of 5/28 (gal.)** |
|---|---|---|
| **Surface** | 18,445 | 725,462 |
| **Subsurface** | 14,040 | 183,832 |

**2.1 (USCG) Incident Command Post (Houma, LA)**.

- On 5/28, BP began applying dispersant on a case by case basis at the direction of the Roberts command and will begin 24 hour shoreline operations in some areas such as the Grand Isle shoreline.

- On 5/28, EPA Region 6 RA participated in a meeting with BP concerning waste and EPA's waste management priorities. Attendees included LDEQ, BP and USCG. Participating via conference was EPA Region 6, EPA HQ, LDNR, and Roberts Area Command.

- On 5/28, in-situ burns were suspended today after two workers (fishermen) were air-evacuated after experiencing chest pains. One 20 min burn was completed before suspension. Crews reported difficulty finding adequate quantities of undisspersed oil suitable for burns.

**2.2 (USCG) Area Command Post (Robert, LA)**

- On 5/28, EPA HQ and Regional personnel participated in a teleconference to discuss approach for shoreline cleanup and marsh restoration. A follow-up meeting involving agency and academic shoreline experts is tentatively scheduled for Wednesday, June 2 at Tulane University.

**2.3 Air Monitoring/Sampling**

- EPA continues to conduct air monitoring and sampling in Venice operations area (VOCs and Particulates):
  - Venice, LA - 29.25274 N, 89.35750 W - V02;
  - Boothville, LA - 29.31449 N, 89.38433 W - V03;
  - Fort Jackson, LA – 29.35699 N, 89.45487 W - V05.

- EPA continues to conduct air monitoring and sampling in Chalmette operations area (VOCs and Particulates):
  - Poydras, LA – 29.86609, -89.89108 - C02 - located at Fire Station number 8;
  - Chalmette, LA - 29.96082, -90.00132 - C04 - located at FireStation on Aycock St.
  - Hopedale, LA, - 29.84049, -89.68980 - C05 - located at Fire Station number 11.

- Each air monitoring location has 4 pieces of air equipment:
  - EBAM (Particulate Monitors) - equipment has replaced DataRAM's;
  - AreaRae/MultiRae - monitoring VOCs;
  - PQ200 - samples for PM2.5;
  - SUMMA Canisters per location - sample for VOCs.

- Air monitoring/sampling stations are monitored throughout the day (24 hours) for immediate reporting of any elevated VOC or particulate levels. The maximum reading is reported to the OSC at the Mobile Command Posts in Venice and Chalmette.

- Real-time air monitoring data from midnight to midnight each day is reviewed for field QA and uploaded into SCRIBE by 1200 each day and available to EPA Headquarters, REOC, and external response partners.

- No air monitoring exceedances were noted during this reporting period.

- On 5/28, the Chalmette air team collected 2 Suma canisters from the Fourchon and Grand Isle areas. Additional set of canisters were placed, one is located on Grand Isle, LA at the Grand Isle State Park on the eastern end of the island and the second is located at Fourchon Beach, Fourchon, LA

**EPA summary of air monitoring/sampling activities:**

| Air Monitoring & Samples | DataRAM (PM10) | AreaRae | SUMMA Canisters | PM2.5 | TOTALS FOR 5/28 |
|---|---|---|---|---|---|
| **Venice** | 3 locs/24-hr | 3 locs/24-hr | 3 | 3 | 6 |
| **Chalmette** | 3 locs/24-hr | 3 locs/24-hr | 5 | 3 | 8 |
| **TOTAL TO DATE** | 6 locs/24-hr | 6 locs/24-hr | 293 | 168 | |

*QAQC samples not included in sample count

## 2.4 Water/Sediment Sampling

- EPA continues to conduct water sampling at locations provided by EPA Headquarters and selected through National Coastline Condition Assessment (NCCA) program. The NCCA sample locations are sampled every four years by state agencies with U.S. Coastlines. Sample parameters and locations were also selected in coordination with the EPA Region 6 Water Quality Division.

- Representatives from the Water Division and the REOC Environmental Units from R6 and R4 conduct a conference call three times a week with the HQ EOC to discuss the coordination and consistency of water and sediment sampling across the Deepwater Horizon Incident Response.

- On 5/28, the Venice Water Operations Team will divide into two separate teams. Water Sampling Team 1 will focus on areas heavily impacted by oil near the South Pass and Pass A Loutre areas, and continue reconnaissance for more oil impacted areas. Water Sampling team 2 will focus on heavily impacted oil areas near Chandeleur Island.

- On 5/28, the Cocodrie Water Operations Team conducted reconnaissance for areas in which significant amounts of oil are accumulating. The team was unable to locate oil in quantities which warranted sampling.

- On 5/28, the EPA OSC at Cocodrie received a special request for assistance from the LDEQ SERO. The Louisiana Wildlife and Fisheries representative operating out of East Point A La Hache, contacted the LDEQ to communicate a “foam” on weathered oil in Drum Bay. The representative was concerned that the foam may be a result of dispersant application. EPA mobilized the Special Operations Team to the Beshel’s Marina to coordinate with the representative and travel to the location to collect a water sample. When the Special Operations Team arrived on site, the “foam” had decreased significantly due to cleanup contractors moving boom in the area. A water sample was collected from the area exhibiting the highest concentration of “foam”.

**EPA summary of water/sediment activities:**

| Water/Sediment Samples | Water | Sediment | TOTALS FOR 5/28 |
|---|---|---|---|
| **Venice** | 7 | 0 | 7 |
| **Chalmette** | 6 | 0 | 6 |
| **TOTAL TO DATE** | 170 | 71 | |

*QAQC samples not included in sample count

## 2.5 TAGA

- On 5/28, TAGA plans to perform mobile monitoring for oil dispersant indicator compounds, OD-00 and OD-27, in Southern MS and AL from the Stennis Space Center to Dauphin Island, AL.
- On 5/28, TAGA performed mobile monitoring for oil dispersant indicator compounds. In Southern MS and AL from Stennis Space Center to Dauphin Island, AL, no dispersant indicator compounds were observed that were not associated with a point source.
- 5/29/10 , TAGA will perform mobile monitoring for oil dispersant indicator compounds in Southern LA from Stennis Space Center to Cocodrie, LA and Lafitte, LA.

## 2.6 ASPECT

- On 5/28, ASPECT primary focus of the completed mission was to document activities associated with the Top Kill operation. Visible imagery collected over the site clearly showed a cloudy, green plume present in the water near the work ships. A total of 120 visible images and 48 IR images were collected and processed.
- On 5/28, an oil/water discrimination software package is also being tested on the IR data. Preliminary results indicate positive identification of heavy to light oil on water. Discrimination results will be posted starting on 29 May.
- On 5/29, pending weather, ASPECT is scheduled to continue data collection over the recovery area. As part of these missions, the system will continue to survey shore/marsh areas for oil contamination.

## 2.7 Water Quality Protection Division Update

- A Water Quality Protection Division situation update is attached.

# 3. EPA Assets

## 3.1 Current Assets Deployed

- Activated in Dallas, TX
  - REOC activated
  - SRICT activated
  - RRT activated

### Deployed Personnel

| Personnel | Dallas, TX | Robert, LA | Houma, LA | New Orleans, LA | Chalmette, LA | Venice, LA | Slidell, LA | TOTALS |
|---|---|---|---|---|---|---|---|---|
| **EPA** | | | | | | | | |
| **- OSC** | 3 | | 1 | | 3 | 1 | | 8 |
| **- RSC** | 5 | 1 | 1 | | | | | 7 |
| **- PIO** | | 3 | | | | | | 3 |
| **- Other** | 3 | 2 | 1 | 1 | | | | 7 |
| **START** | 5 | | | | 15 | 15 | | 35 |
| **ERT Contractor** | | | | | | | | |
| **TAGA Personnel** | | | | | | | 5 | 5 |
| **ASPECT Personnel** | | | | | | | 4 | 4 |
| **Other** | | | | | | | | |
| **TOTALS** | 16 | 6 | 3 | 1 | 18 | 16 | 9 | 69 |

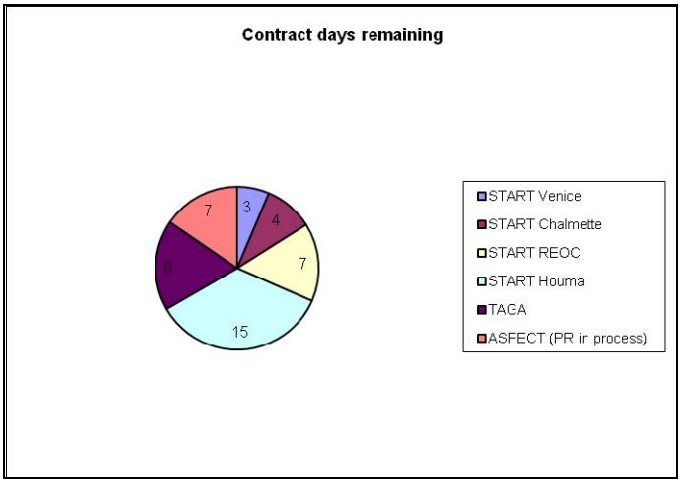
### Deployed Equipment

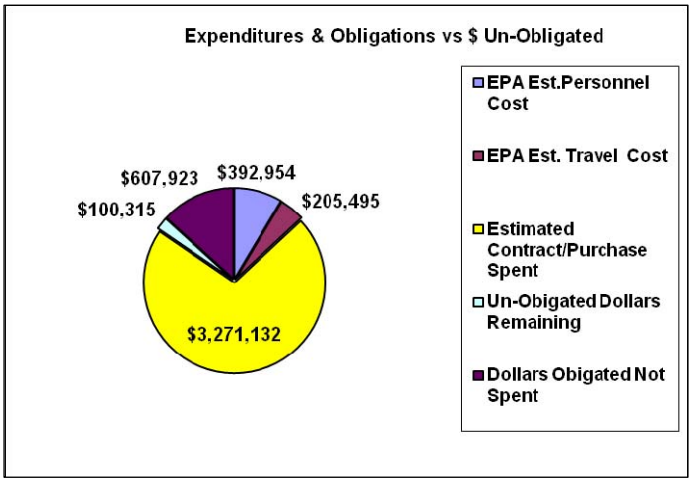
| Equipment | Dallas, TX | Robert, LA | Houma, LA | New Orleans, LA | Chalmette, LA | Venice, LA | Slidell, LA | TOTALS |
|---|---|---|---|---|---|---|---|---|
| **Mobile Command Post** | | | | | | 1 | | 1 |
| **ASPECT** | | | | | | | 1 | 1 |
| **TAGA Bus** | | | | | | | 1 | 1 |
| **LRV** | | 1 | | | 1 | | | 2 |
| **Gooseneck Trailer** | | | | | | 1 | | 1 |
| **20 KW Generator** | | | | | | 1 | | 1 |
| **Dually Truck (R7)** | | | | | 1 | | | 1 |
| **Boat (R7)** | | | | | 1 | | | 1 |

* One TAGA bus has been assigned to Region 4 Operations

## 4. Daily Cost Estimates

| | Authorized Ceiling | EPA Est.Personnel Cost | EPA Est. Travel Cost | Estimated Contract/ Purchase Spent | TOTAL Estimated Expenditures | Balance (Ceiling minus Expenditures) | TOTAL Contract/Purchase OBLIGATIONS. | | Est. Daily Burn Rate | Un-Obigated Dollars Remaining | Dollars Obigated Not Spent |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **USCG PRFA FPN N10036 $5,178,429 Total $1,000,000 4/28/10 $4,000,000 5/05/10 $178,429.10 5/19/10** | **$4,577,819** | $392,954 | $205,495 | $3,271,132 | $3,869,581 | $708,238 | $3,879,055 | | $142,672 | $100,315 | $607,923 |
| **TOTAL OPA FUNDED** | **$4,577,819** | **$392,954** | **$205,495** | **$3,271,132** | **$3,869,581** | **$708,238** | **$3,879,055** | | **$142,672** | **$100,315** | **$607,923** |
| | | | | | | | | | | | |
| **Region 6 Indirect Rate 13.12%** | **$600,610** | | | | | | | | | | |
| | | | | | | | | | | | |
| **Louisiana Total** | **$5,178,429** | **$392,954** | **$205,495** | **$3,271,132** | **$3,869,581** | **$708,238** | **$3,879,055** | | **$142,672** | **$100,315** | **$607,923** |

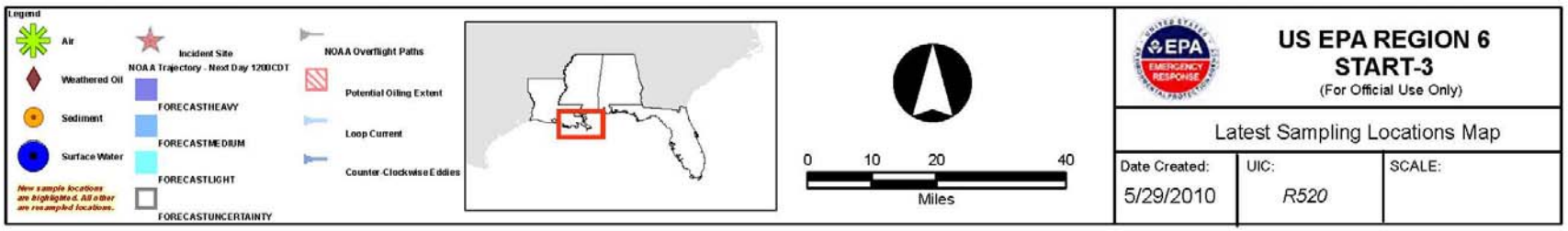



- Region 6 has been notified a $2 million dollar PRFA has been signed. The REOC has not seen the documentation as of 1230 hours.

**Figure 1 EPA field team meeting with Administrator Jackson.**

# Monitoring/Sampling Locations

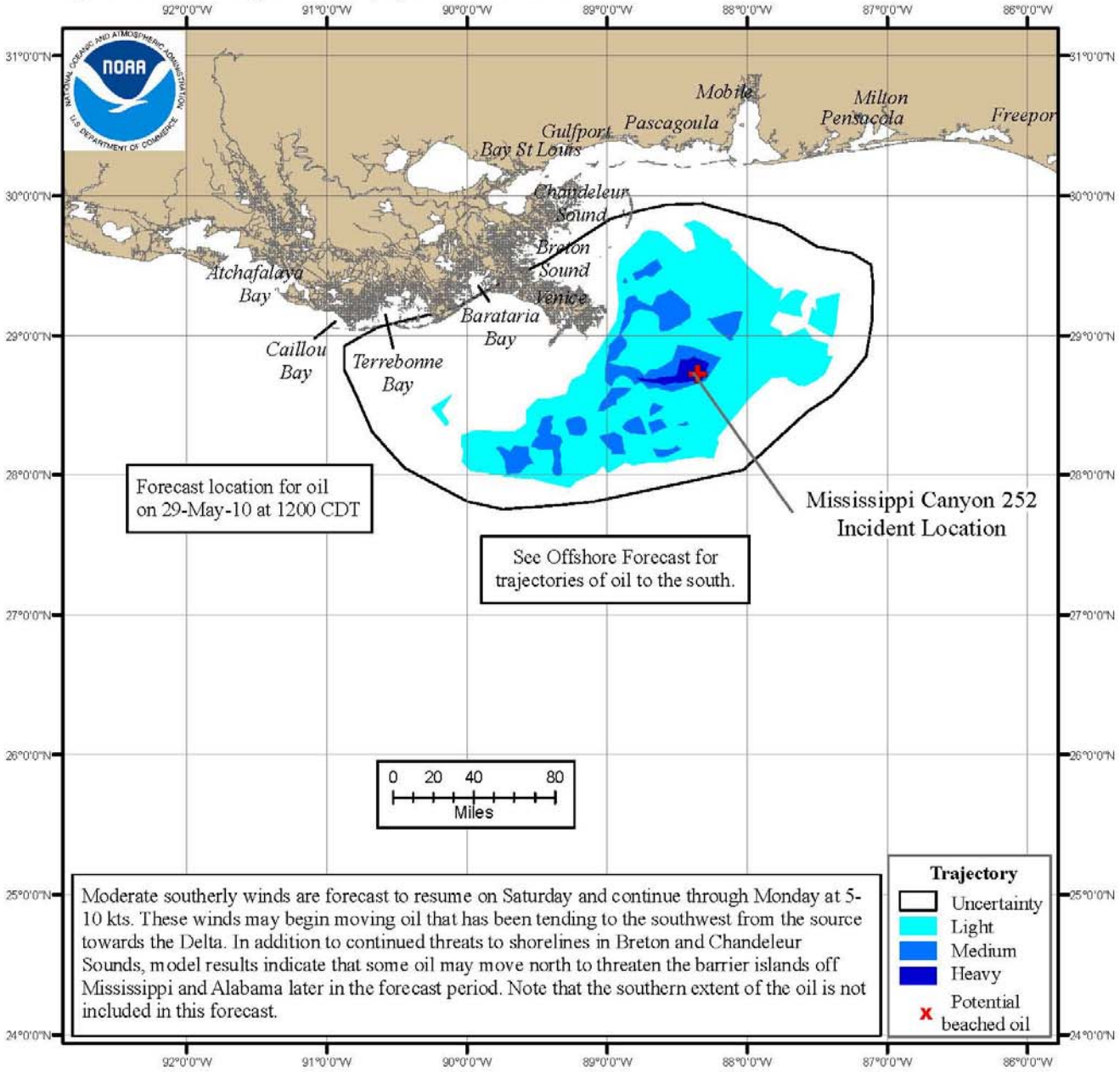



# Nearshore Surface Oil Forecast Deepwater Horizon MC252

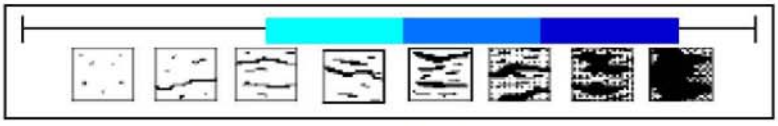
**NOAA/NOS/OR&R** **Nearshore**

Estimate for: 1200 CDT, Saturday, 5/29/10
Date Prepared: 2100 CDT, Friday, 5/28/10

This forecast is based on the NWS spot forecast from Friday, May 28 PM. Currents were obtained from several models (NOAA Gulf of Mexico, West Florida Shelf/USF, TAMU/TGLO, NAVO/NRL) and HFR measurements. The model was initialized from Friday satellite imagery analysis (NOAA/NESDIS) and overflight observations. The leading edge may contain tarballs that are not readily observable from the imagery (hence not included in the model initialization). Oil near bay inlets could be brought into that bay by local tidal currents.




Moderate southerly winds are forecast to resume on Saturday and continue through Monday at 5-10 kts. These winds may begin moving oil that has been tending to the southwest from the source towards the Delta. In addition to continued threats to shorelines in Breton and Chandeleur Sounds, model results indicate that some oil may move north to threaten the barrier islands off Mississippi and Alabama later in the forecast period. Note that the southern extent of the oil is not included in this forecast.



this scale bar shows the meaning of the distribution terms at the current time

Next Forecast: May 29th PM